# COMMONWEALTH OF VIRGINIA Department of Environmental Quality Piedmont Regional Office

# STATEMENT OF LEGAL AND FACTUAL BASIS

INGENCO - Amelia Plant Amelia County, Virginia Permit No. PRO – 31047

Title V of the 1990 Clean Air Act Amendments required each state to develop a permit program to ensure that certain facilities have federal Air Pollution Operating Permits, called Title V Operating Permits. As required by 40 CFR Part 70 and 9 VAC 5 Chapter 80, INGENCO has applied for a Title V Operating Permit for its Amelia facility. The Department has reviewed the application and has prepared a draft Title V Operating Permit.

Engineer/Permit Contact:	Dat		
	"Sparky" H.L. Lisle, Jr.	_	
Air Permit Manager:	James E. Kyle P.E.	Date:	
	cames <u>Lingis</u> in L		
Regional Permit Manager:		Date:	
	James J. Golden		

**DRAFT** 

#### **FACILITY INFORMATION**

#### **Permittee**

Industrial Power Generating Corporation (INGENCO) Amelia Plant 2250 Dabney Rd. Richmond, VA 23230

### **Facility**

Industrial Power Generating Corporation (INGENCO) Amelia Plant Maplewood Recycling & Waste Disposal Facility Amelia, Virginia

# **Responsible Official**

Mr. Charles J. Packard President

# **Contact person**

Mr. Robert L. Greene, Ph.D Environmental Compliance Manager (804) 521-3557 FAX 3583

AIRS Identification Number: 51-007-00011

#### **FACILITY DESCRIPTION:**

SIC Code 4931 – The facility is a 16 MW power generation facility. This is one of several facilities in this region, which is run by the operating company, INGENCO. This facility is located in an attainment area. The facility is a State Major Source limited to 240 TPY or less for NOx and CO.

#### **COMPLIANCE STATUS:**

A full compliance evaluation of this facility was been completed on July 22, 2004 and the facility was reported as in compliance.

# DRAFT **EMISSION UNIT AND CONTROL DEVICE IDENTIFICATION**

Equipment to be operated consists of:

Emissior	Stack	Emission Unit	Size/Rated	Pollution Control Device	PCD	Pollutant	Applicable
Unit ID	ID	Description	Capacity	Description (PCD)	ID	Controlled	Permit Date
E1-E48	S-1 S-2 S-3 S-4 S-5 S-6 S-7 S-8	350 kW Generators (8 Groups of 6 units)		NA - air-to-fuel ratio control turbo-charging, custom-bui dry after-coolers and charge-air cooling systems		NOx, CO, SOx, VOC, PM, PM10	06/29/2004

# **EMISSIONS INVENTORY:**

A summary of INGENCO - Amelia

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PLANTWIDE EMISSIONS SUMMARY [TONS PER YEAR]			
CRITERIA POLLUTANTS	2003		
	ACTUAL EMISSIONS		
Particulate Matter (PM10)	7.80		
Nitrogen Oxides (NOx)	62.00		
Sulfur Dioxide (SO2)	4.00		
Carbon Monoxide (CO)	85.90		
VOC	12.00		

# DRAFT LEGAL AND FACTUAL BASIS FOR DRAFT PERMIT CONDITIONS:

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the Commonwealth of Virginia Federal Operating Permit Regulations for the purposes of Title V of the Federal Clean Air Act (9 VAC 5 Chapter 80 Article 1), and underlying applicable requirements in other state and federal rules. Applicable requirement means all of the following as they apply to emissions units in a Title V source:

- a. Any standard or other requirement provided for in the State Implementation Plan or the Federal Implementation Plan, including any source-specific provisions such as consent agreements or orders.
- b. Any term or condition of any pre-construction permit issued pursuant to 9 VAC 5-80-10, Article 8 (9 VAC 5-80-1700 et seq.) of this part or 9 VAC 5-80-30 or of any operating permit issued pursuant to 9 VAC 5 Chapter 80 Article 5, except for terms or conditions derived from applicable state requirements or from any requirement of these regulations not included in the definition of applicable requirement.
- c. Any standard or other requirement prescribed under these regulations, particularly the provisions of 9 VAC 5 Chapter 40 (9 VAC 5-40-10 et seq.), 9 VAC 5-50 (9 VAC 5-50-10 et seq.) or 9 VAC 5-60 (9 VAC 5-60-10 et seq.), adopted pursuant to requirements of the federal Clean Air Act or under \_ 111, 112 or 129 of the federal Clean Air Act.
- Any requirement concerning accident prevention under §112(r)(7) of the federal Clean Air Act.
- e. Any compliance monitoring requirements established pursuant to either §504(b) or §114(a)(3) of the federal Clean Air Act or these regulations.
- f. Any standard or other requirement for consumer and commercial products under § 183(e) of the federal Clean Air Act.
- g. Any standard or other requirement for tank vessels under §183(f) of the federal Clean Air Act.
- h. Any standard or other requirement in 40 CFR, Part 55 to control air pollution from outer continental shelf sources.
- i. Any standard or other requirement of the regulations promulgated to protect stratospheric ozone under Title VI of the federal Clean Air Act, unless the administrator has determined that such requirements need not be contained in a permit issued under this article.
- j. With regard to temporary sources subject to 9 VAC 5-80-130, (i) any ambient air quality standard, except applicable state requirements, and (ii) requirements regarding increments or visibility as provided in Article 8 (9 VAC 5-80-1700 et seq.) of this part.
- k. Any standard or other requirement of the acid deposition control program under Title IV of the Clean Air Act or the regulations promulgated thereunder.
- I. Any standard or other requirement governing solid waste incineration under §129 of the Clean Air Act. Each state and federally-enforceable condition of the draft Title V Operating Permit references the specific relevant requirements of 9 VAC 5-80 Article 1 or the applicable requirement upon which it is based. Any condition of the draft Title V permit that is enforceable by the state, but is not federally-enforceable is identified in the draft Title V permit as such.

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# DRAFT Limitations

The permitted INGENCO - Amelia Plant has specific applicable requirements contained in Condition numbers 3 through 10 and 18 through 27 of the June 29, 2004 NSR permit and are included as Conditions numbers 1 through 16 and 38 through 39 in the Title V permit.

### **Periodic Monitoring**

The monitoring and record keeping requirements in Condition numbers 11 through 17, 30 and 34 through 38 of the June 29, 2004 NSR permit have been used as is to meet Part 70 requirements.

### Record keeping

The permit includes requirements for maintaining records of all monitoring and testing required by the NSR permit. These specific requirements are listed in the June 29, 2004 NSR permit condition 28 and is included in the Title V permit.

### **Testing**

The permit does require source to conduct initial and ongoing performance tests for NOx and CO. A table of test methods has been included in the permit if additional testing is performed. The Department and EPA have authority to require testing not included in this permit if necessary to determine compliance with an emission limit or standard.

Pollutant	Test Method (40 CFR Part 60, Appendix A)
VOC/NMOC	EPA Method 18 0r 25A/25C
NOx	EPA Method 7E
SO2	EPA Method 6C
СО	EPA Method 10
PM/PM10	EPA Methods 5, 17
Visible Emission EPA Method 9	

(9 VAC 5-80-110)

The initial performance test and ongoing performance test are included in the June 29, 2004 NSR permit Condition numbers 29, 30, 31, 32 and 33 are included in the Title V permit.

#### Reporting

All reports required by Part 70 shall be prepared and submitted to EPA and the Piedmont Regional Office in accordance with procedures outlined in the general conditions in the Title V permit.

The requirement to submit notification of control equipment removal and malfunction was included in the Title V permit using the permit language used in Condition numbers 39 and 40 of the June 29, 2004 NSR permit.

# DRAFT Streamlined Requirements

None.

#### **GENERAL CONDITIONS**

The permit contains general conditions required by 40 CFR Part 70 and 9 VAC 5-80-110 that apply to all Federal-operating permitted sources. These include requirements for submitting semi-annual monitoring reports and an annual compliance certification report. The permit also requires notification of deviations from permit requirements or any excess emissions.

#### **Comments on General Conditions**

# B. Permit Expiration

This condition refers to the Board taking action on a permit application. The Board is the State Air Pollution Control Board. The authority to take action on permit application(s) has been delegated to the Regions as allowed by §2.1-20.01:2 and §10.1-1185 of the *Code of Virginia*, and the "Department of Environmental Quality Agency Policy Statement NO. 3-2001".

This general condition cite(s) the Article(s) that follow(s): Article 1 (9 VAC 5-80-50 et seq.), Part II of 9 VAC 5 Chapter 80. Federal Operating Permits for Stationary Sources

This general condition cites the sections that follow: 9 VAC 5-80-80. Application

9 VAC 5-80-140. Permit Shield

9 VAC 5-80-150. Action on Permit Applications

#### F. Failure/Malfunction Reporting

Section 9 VAC 5-20-180 requires malfunction and excess emission reporting within four hours of discovery. Section 9 VAC 5-80-250 of the Title V regulations also requires malfunction reporting; however, reporting is required within two days. Section 9 VAC 5-20-180 is from the general regulations. All affected facilities are subject to section 9 VAC 5-20-180 including Title V facilities. Section 9 VAC 5-80-250 is from the Title V regulations. Title V facilities are subject to both sections. A facility may make a single report that meets the requirements of 9 VAC 5-20-180 and 9 VAC 5-80-250. The report must be made within four daytime business hours of discovery of the malfunction.

This general condition cites the sections that follow:

9 VAC 5-40-41. Emissions Monitoring Procedures for Existing Sources

9 VAC 5-40-50. Notification, Records and Reporting

9 VAC 5-50-50. Notification, Records and Reporting

This general condition contains a citation from the Code of Federal Regulations as follows: 40 CFR 60.13 (h). Monitoring Requirements.

#### J. Permit Modification

This general condition cites the sections that follow:

9 VAC 5-80-50. Applicability, Federal Operating Permit For Stationary Sources

9 VAC 5-80-190. Changes to Permits.

9 VAC 5-80-260. Enforcement.

9 VAC 5-80-1100. Applicability, Permits For New and Modified Stationary Sources

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DRAFT Page 7 of 8 9 VAC 5-80-1790. Applicability, Permits For Major Stationary Sources and Modifications Located in

9 VAC 5-80-1790. Applicability, Permits For Major Stationary Sources and Modifications Located in Prevention of Significant Deterioration Areas

9 VAC 5-80-2000. Applicability, Permits for Major Stationary Sources and Major Modifications Locating in Non-attainment Areas

\*Note – the facility may on occasion replace individual engines with the same model as a means of repair and is not considered reconstruction.

#### U. Malfunction as an Affirmative Defense

The regulations contain two reporting requirements for malfunctions that coincide. The reporting requirements are listed in sections 9 VAC 5-80-250 and 9 VAC 5-20-180. The malfunction requirements are listed in General Condition U and General Condition F. For further explanation see the comments on general condition F.

This general condition cites the sections that follow: 9 VAC 5-20-180. Facility and Control Equipment Maintenance or Malfunction 9 VAC 5-80-110. Permit Content

### Y. Asbestos Requirements

The Virginia Department of Labor and Industry under Section 40.1-51.20 of the Code of Virginia also holds authority to enforce 40 CFR 61 Subpart M, National Emission Standards for Asbestos.

This general condition contains a citation from the Code of Federal Regulations that follow:

40 CFR 61.145, NESHAP Subpart M. National Emissions Standards for Asbestos as it applies to demolition and renovation.

40 CFR 61.148, NESHAP Subpart M. National Emissions Standards for Asbestos as it applies to insulating materials.

40 CFR 61.150, NESHAP Subpart M. National Emissions Standards for Asbestos as it applies to waste disposal.

This general condition cites the regulatory sections that follow:

9 VAC 5-60-70. Designated Emissions Standards

9 VAC 5-80-110. Permit Content

# STATE ONLY APPLICABLE REQUIREMENTS

The following Virginia Administrative Codes have specific requirements only enforceable by the State and have been identified as applicable:

9 VAC 5-50-310, Odorous Emissions

# **REQUEST FOR VARIANCES OR ALTERNATIVES:**

None.

#### **FUTURE APPLICABLE REQUIREMENTS**

None.

# **INAPPLICABLE REQUIREMENTS**

RICE MACT (not a major source of HAPs).

Subpart WWW (40 CFR 60.752b2iiiB), source uses Land Fill Gas, but is not required to meet % reduction of NMOCs.

# DRAFT COMPLIANCE PLAN

None.

# **INSIGNIFICANT EMISSION UNITS**

The insignificant emission units are presumed to be in compliance with all requirements of the Clean Air Act as may apply. Based on this presumption, no monitoring, record keeping or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110. The following emission units at the facility are identified as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (5-80-720 B)	Rated Capacity (5-80-720 C)
T1	Fuel oil storage tank	5-80-720 B.	VOC	20,000 Gallon
T2	Fuel oil storage tank	5-80-720 B.	VOC	20,000 Gallon
Т3	Fuel oil storage tank	5-80-720 B.	VOC	20,000 Gallon
T4	Fuel oil storage tank	5-80-720 B.	VOC	20,000 Gallon
Т5	Lube oil storage tank	5-80-720 B.	VOC	300 Gallon
Т6	Lube oil storage tank	5-80-720 B.	VOC	300 Gallon

#### CONFIDENTIAL INFORMATION

The applicant did not submit a request for confidentiality. All portions of the Title V application are suitable for public review.

# **COMMENT PERIOD:**

The public notice appeared in the *Amelia Bulletin Monitor* on August 5, 2004.

Beginning Date: August 6, 2004 Ending Date: September 7, 2004

No <u>(TBD)</u> written comments were received during the Public Comment period or from US EPA for the concurrent 45 day comment period.